Instructions

GH™ 130/200/230
DutyMax EH™ 200/200 HDI/200 DI/230 DI/300 DI Electric Motor Kit

310812M
EN

For professional use only.
Not approved for use in explosive atmosphere or hazardous locations.
For portable airless spraying of architectural paints and coatings.

IMPORTANT SAFETY INSTRUCTIONS.
Read all warnings and instructions in this manual and related manuals.
Be familiar with the controls and the proper usage of the equipment.
Save these instructions.

3300 psi (22.8 MPa, 228 bar) Maximum Working Pressure
See page 3 for model information, including maximum working pressure and approvals.

288473: 120 Vac, 60 Hz, 15A
GH130 Sprayer Electric Motor Kit

288474: 120 Vac, 60 Hz, 20A
Same as 288473 except with ETL approval to CSA and UL standards

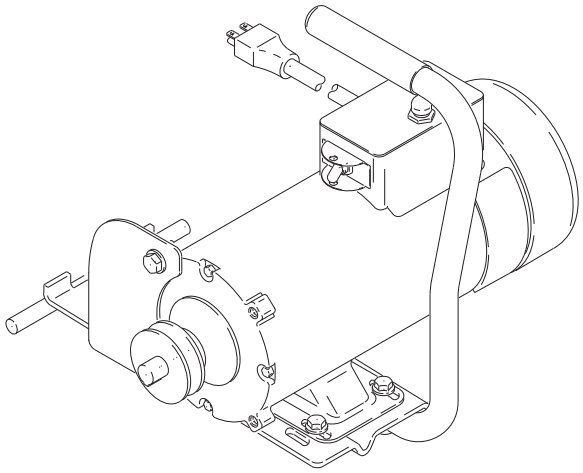
248949: 120 Vac, 60 Hz, 15A
GH200/GH230 Sprayer Electric Motor Kit

248950: 120 Vac, 60 Hz, 20A
Same as 248949 except with ETL approval to CSA and UL standa

248946: 220 Vac, 50 Hz, 15.0A
DutyMax EH200/EH200HDI Sprayer Electric Motor Kit
DutyMax EH230DI Sprayer Electric Motor Kit

24M668: 220 Vac, 50 Hz, 15.0A
DutyMax EH200DI Sprayer Electric Motor Kit

24M669: 400 Vac, 50 Hz, 11.0A
DutyMax EH300DI Sprayer Electric Motor Kit



PROVEN QUALITY. LEADING TECHNOLOGY.

Warnings

The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

⚠ DANGER

HIGH VOLTAGE ELECTRIC SHOCK HAZARD

This equipment uses high voltage power. Improper contact with high voltage equipment will cause death or serious injury.

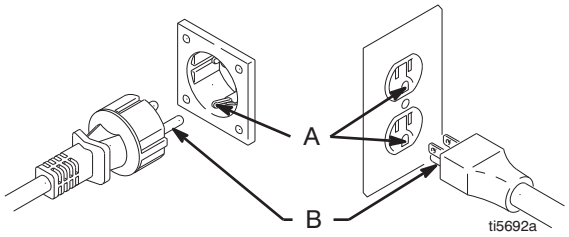
- Turn off and disconnect power cord before servicing equipment.
- This equipment must be grounded. Connect only to grounded power source.
- Use only 3-wire extension cords for 240V and single phase models.
- Use only 5-wire extension cords for 400 AC and three phase models.
- Ensure ground prongs are intact on power and extension cords.
- Do not expose to rain. Store indoors.

Grounding

Improper installation or alteration of the grounding plug will result in a risk of electric shock, fire or explosion that could cause serious injury or death.

The sprayer must be grounded. Grounding reduces the risk of static and electric shock by providing an escape wire for the electrical current due to static build up or in the event of a short circuit.

- 120 Vac: requires a 120 Vac, 60 Hz, 20A (15A for 248949) circuit with a grounding receptacle (A). 230 Vac: requires a 230 Vac, 50 Hz, 13A circuit with a grounding receptacle (A). Never use an outlet that is not grounded (A) or an adapter.



- Do not use sprayer if electric cord has a damaged ground prong (B). Only use an extension cord with an undamaged 3-prong plug.

  Recommended extension cord lengths:
  - 25 ft (7.6 m) 18 AWG
  - 50 ft (15.2 m) 16 AWG
  - 100 ft (30.5 m) 14 AWG
  - 150 ft (45.7 m) 12 AWG

  Smaller gauge or longer cords may reduce sprayer performance.

- If the power cord or plug is damaged, replace with the appropriate cord listed in the **Parts List**.

Power Requirements

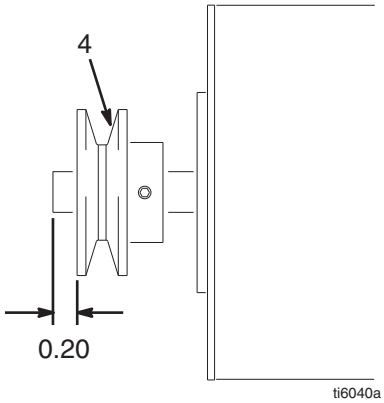
- 380-400V units require 400 VAC, 50 Hz, 16A, 3 phase, 3P+N+E, 6H power connection

- To operate the EH300DI (24M056) sprayer, the generator needs to be sized for 15 kW output (minimum).

Pulley Placement

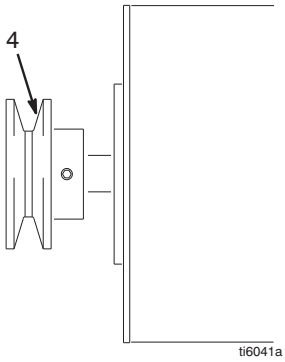
Sprayer Models:
248559, 248560, 248561,248565, 248566, 248568, 253709, 253957, 253959, 253980, 253960, 253962, 253963, 253981, 253964, 253965, 253966, 253982

Align pulley (4) approximately 0.20 in. from end of electric motor shaft.

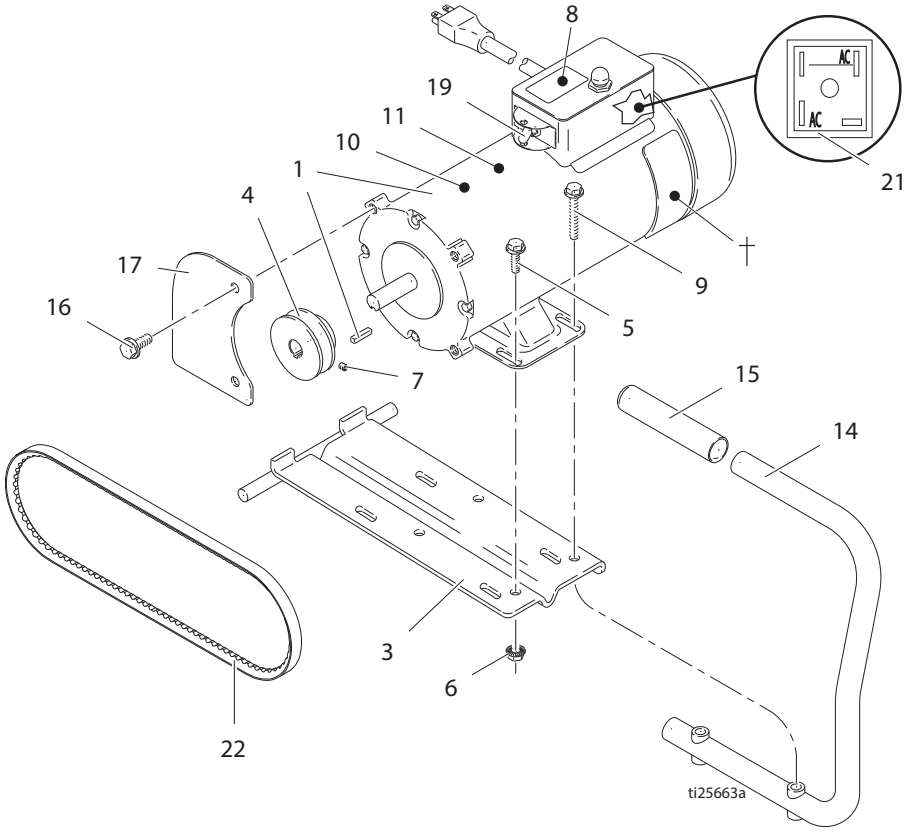


Models:
233940, 233941, 233942, 233943, 248946, 24M668, 24M669

Align pulley (4) at end of electric motor shaft.



Parts - 288473, 288474, 248949, 248950



Ref.	Part	Description	Qty.
1†		ELECTRIC MOTOR	
	246129	NON-CSA, 2.0 HP, includes 19	1
	246125	CSA, 2.0 HP, includes 19	1
3	198838	BRACKET, mount, engine	1
4	15A752	PULLEY, 2.5 in. (Models 248949, 248950)	1
	15J953	PULLEY, 4.25 in. (Models 288473, 288474)	1
5	112586	SCREW, cap, hex hd	2
6	110996	NUT, flanged, hex	4
7	100002	SCREW, set	2
8▲		LABEL, warning	
	187975	NON-CSA	1
	195833	LABEL, warning	1
9	114653	SCREW, cap, hex hd	2
10▲	189285	LABEL, danger, (English)	1
	15D523	LABEL, warning, fire & explosion	1
14	246214	HANDLE, conversion	1

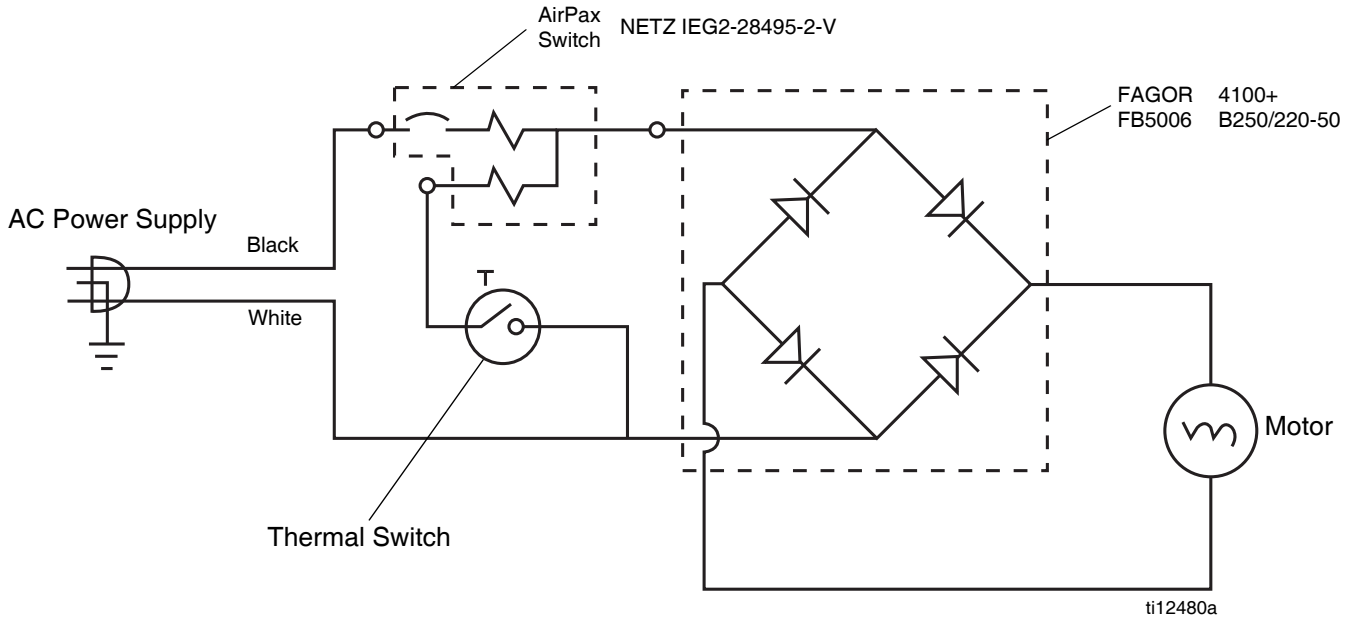
Ref.	Part	Description	Qty.
15	111700	GRIP, handle	1
16	111192	SCREW, cap, flange hd	2
17	15B562	BRACKET, guard, motor	1
18	176347	LABEL, identification	1
19	287145	SWITCH, breaker	1
21	111419	RECTIFIER, bridge	1
22*	116914	BELT, AX42	1

▲ *Warning labels, tags, and cards are free.*

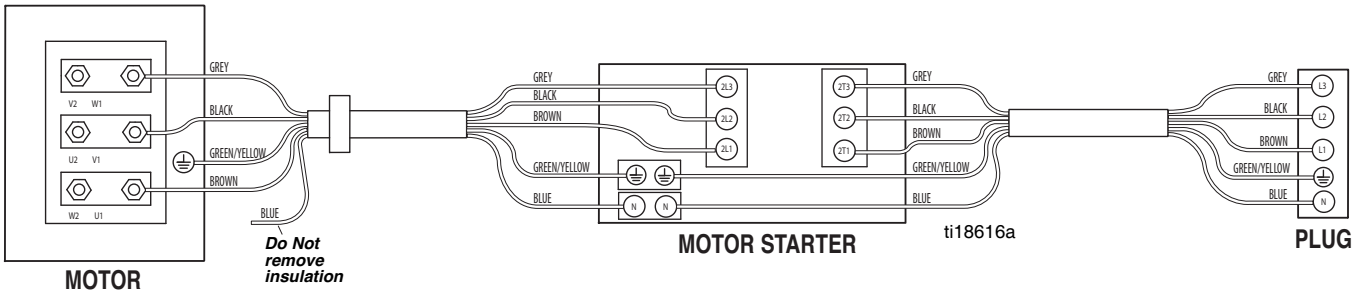
† Brush Repair Kit 220853 is available for 248949, 288473
Brush Repair Kit 287737 is available for 248950, 288474

** Included with GH130 Motor Kits- 288473 and 288474*

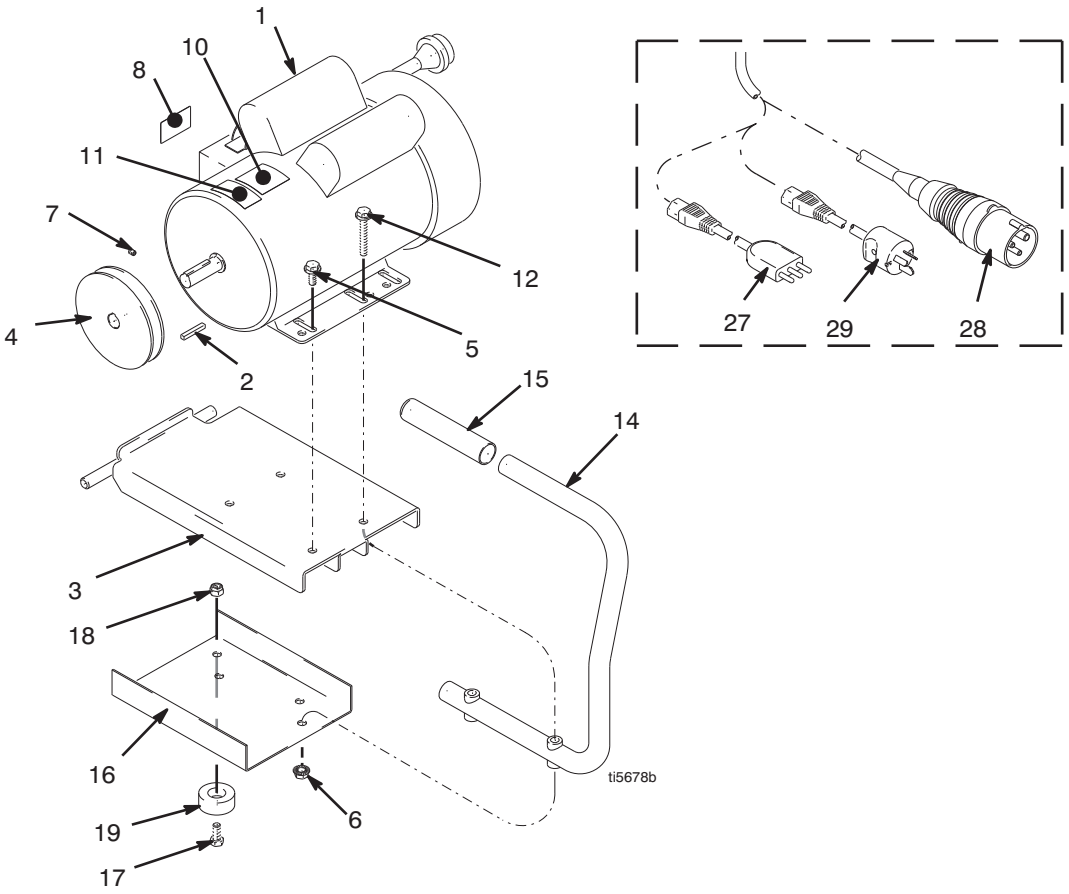
Wiring Diagram for 196836 Power Cord



Wiring Diagram for 24M669 (400 Vac)



Parts 248946, 24M668



Ref.	Part	Description	Qty.
1	15E669	ELECTRIC MOTOR 3.0 HP, 220 Vac	1
2	117632	KEY, square, 3/16 x 1.25 in	1
3	15E585	BRACKET, mount, engine	1
4	15E588	PULLEY, 4.45 in. (Model 248946)	1
	16N612	PULLEY, 4.95 in. (Model 24M668)	1
5	110963	SCREW, cap, hex hd	2
6	110996	NUT, flanged, hex	4
7	100002	SCREW, set	2
8▲	187975	LABEL, warning (Model 248946)	1
	189930	LABEL, warning (Model 24M668)	1
10	15B804	LABEL, Graco, logo	1
11	290228	LABEL, caution (Model 248946)	1
	15K616	LABEL, caution (Model 24M668)	1
12	114653	SCREW, cap, hex hd	1

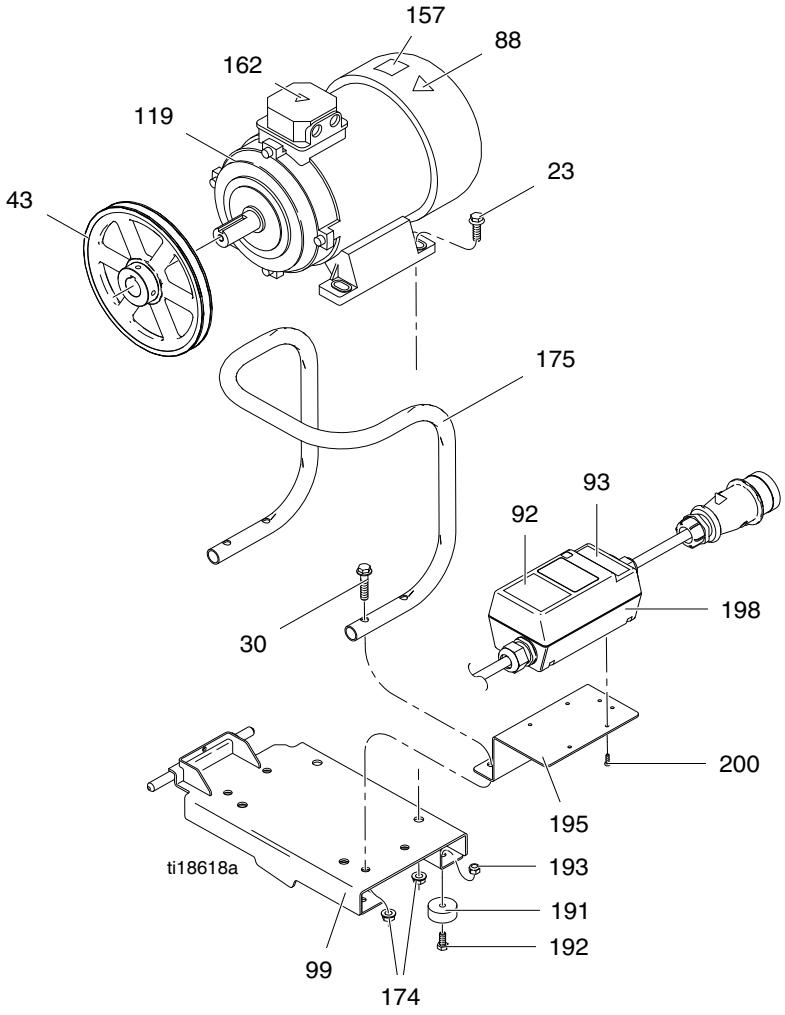
Ref.	Part	Description	Qty.
14	246214	HANDLE, conversion	1
15	111700	GRIP, handle	1
16	15F217	PLATE	1
17	100057	SCREW	4
18	111040	NUT	4
19	113817	BUMPER	4
27	197186	PLUG, Italian, rewireable	1
28	197187	PLUG, IEC 309, 16/20A, 3-pin	1
29	197188	PLUG, Australian, rewireable	1
32	116914	BELT, vee, gripnotch (not shown)	1

▲ *Warning labels, tags, and cards are free.*

Breaker Switch Repair Kit 287744 is available.

Capacitors Repair Kit 287746 is available.

Parts - 24M669



Ref.	Part	Description	Qty.
23	111193	SCREW, cap flange hd	4
30	116780	SCREW, hex, hd, flanged	4
43	125811	PULLEY, cast iron, 8.75 in	1
88▲	15K616	LABEL	1
92	16N399	LABEL, motor switch box on-off	1
93	16N400	LABEL, red light indicator	1
99	16M467	BRACKET, mounting, motor, EH 300	1
119	24N019	MOTOR, elec., 400 VAC, 50 HZ, 7.3 hp	1
162▲	189930	LABEL, caution	1

Ref.	Part	Description	Qty.
174	112958	NUT, hex, flanged	8
175	16M473	TUBE, handle, conversion	1
191	113817	BUMPER	4
192	100057	SCREW, cap, hex hd	4
193	111040	NUT, lock, insert, nylock, 5/16	4
195	16M474	BRACKET, motor starter	1
198	24N064	STARTER, motor, assembly	1
200	119236	SCREW, plastite	4

▲ *Warning labels are available at no cost.*

Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

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This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

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Original instructions. This manual contains English. MM 310812

Graco Headquarters: Minneapolis
International Offices: Belgium, China, Japan, Korea

GRACO INC. AND SUBSIDIARIES • P.O. BOX 1441 • MINNEAPOLIS MN 55440-1441 • USA

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